Robert C. Colwell, Reg. No. 27,431

(650) 326-2400

Applicant: Shuji SUGIMOTO

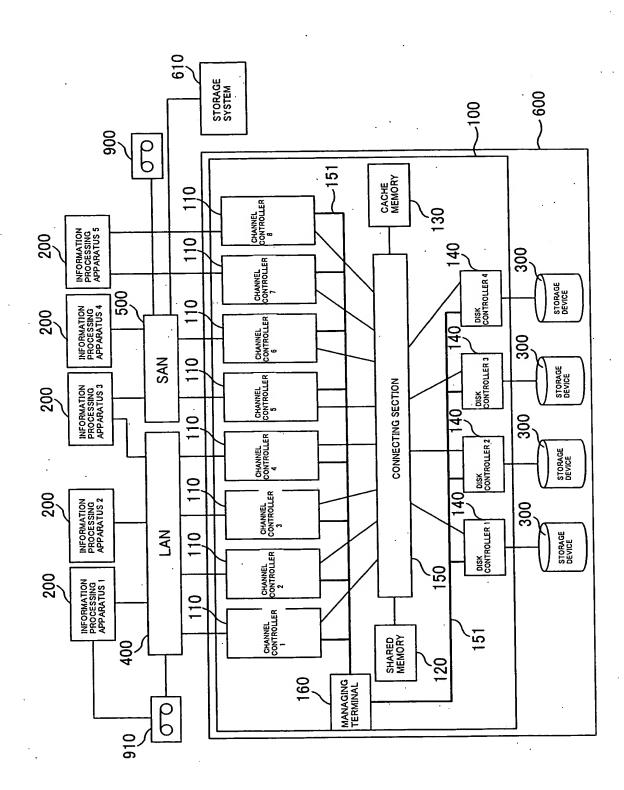
Titl: Storage Device Controlling Apparatus and a Circuit Board...

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Sh et 1 f 10

FIG. 1

(1/10)



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FIG. 2

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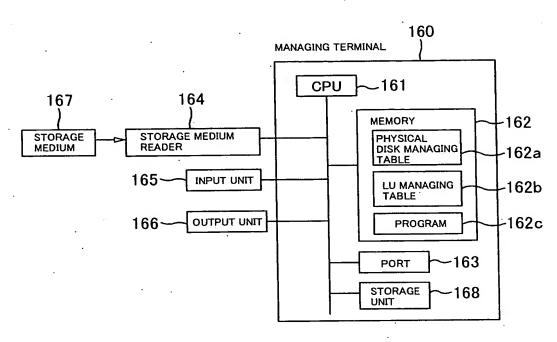


FIG. 3

162a

PHYSICAL DISK MANAGING TABLE

DISK NUMBER	CAPACITY	RAID	USAGE STATE
#001	100GB	5	USED
#002	100GB	5	USED
#003	100GB	5	USED
#004	100GB	5	USED
#005	100GB	5	USED
#006	50GB	_	UNUSED

FIG. 4

162b

LU MANAGING TABLE

LU NUMBER	PHYSICAL DISK	CAPACITY	RAID
#1	#001,#002,#003,#004,#005	100GB	5
#2	#001,#002,#003,#004,#005	300GB	5
#3	#006,#007,	200GB	1
:		:	

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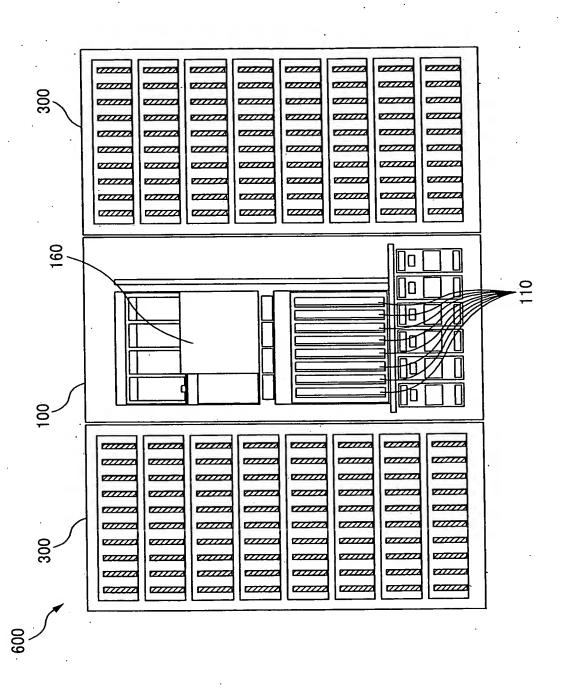
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FIG. 5

(3/10)



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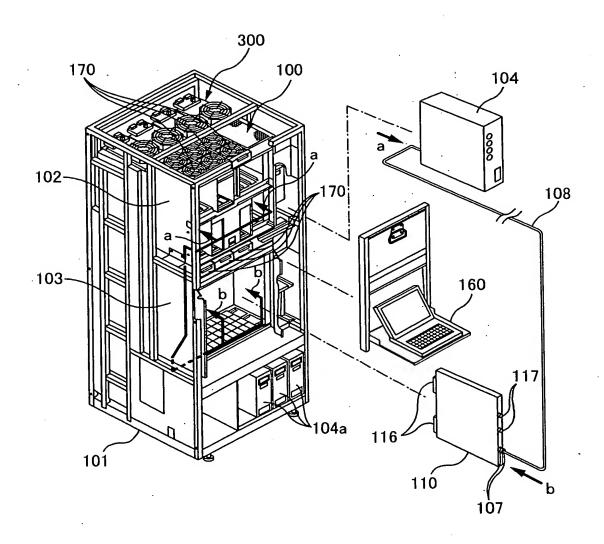
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FIG. 6

(4/10)



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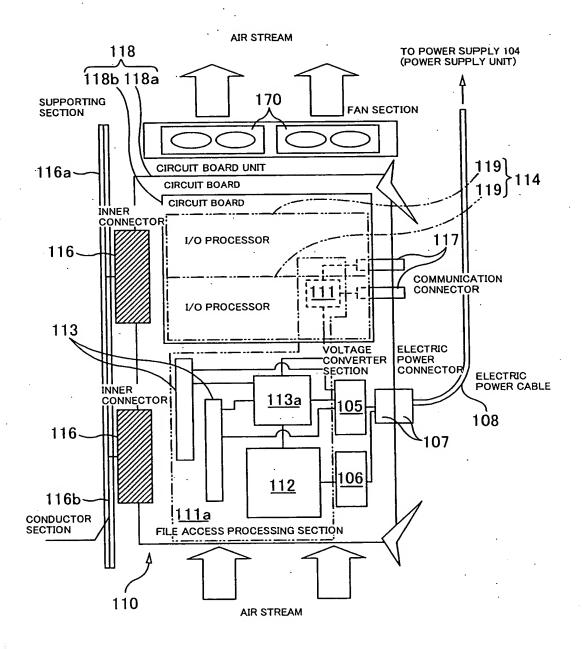
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FIG. 7

(5/10)



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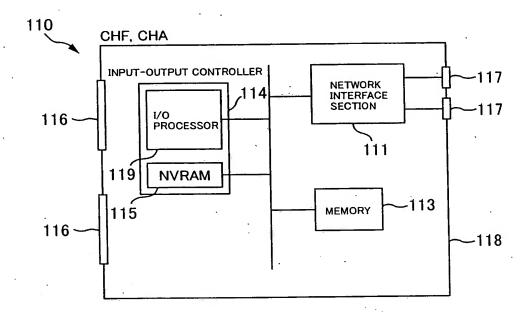
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FIG. 8

(6/10)



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FIG. 9

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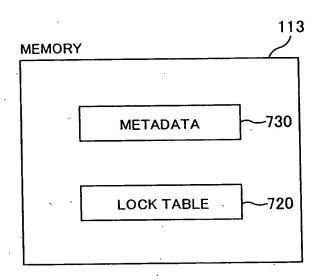
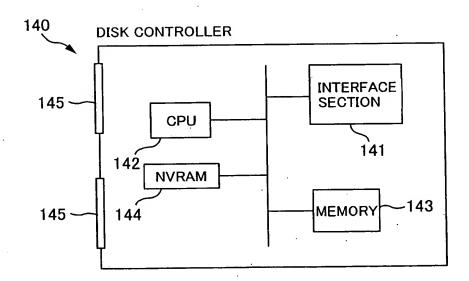


FIG. 10



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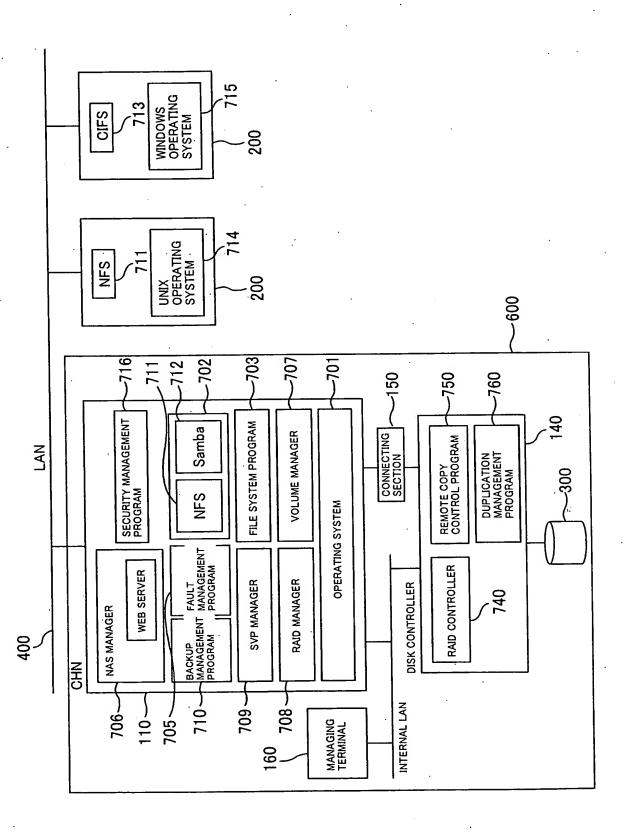
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FIG. 11



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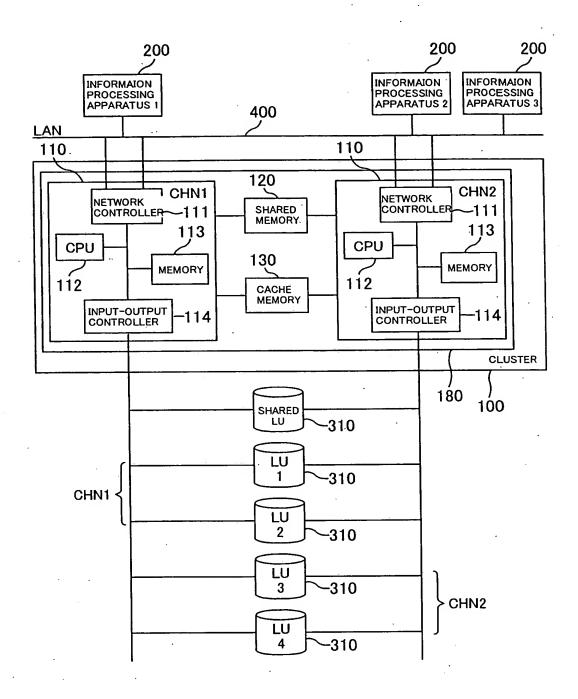
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FIG. 12

(9/10)



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FIG. 13

(10/10)

730

METADATA

FILE NAME	TOP ADDRESS	CAPACITY	OWNER	UPDATE TIME
Α	7BSA	200MB	X	0:00
В	05BF	50MB	Х	7:57
. C	1F30	100MB	Υ	9:15
D	470B	100MB	Z ·	15:20
:	• : .	:	:	:
			-	

FIG. 14

721

FILE LOCK TABLE

FILE LOCK TABLE		
FILE NAME	LOCK/UNLOCK	
Α	LOCKED	
В		
С	_	
D	LOCKED	
	:	

722

LU LOCK TABLE

LU	LOCK/UNLOCK	
SHARED	_	
1	LOCKED	
2	_	
	:	